

MINASYAN, M.A., kandidat tekhnicheskikh nauk; KIRSANOV, S.D.

New flow chart for the crushing-expressing section of the Ust'-
Labinskaya oil extracting plant. Masl. -shir. prom. 19 no.2:
12-13 '54.
(MLRA 7:4)

1. Trest "Krasnodarshirmsle"

(Sunflower seed oil)

MINASYAN, M.A.

MINASYAN, M.A., kandidat tekhnicheskikh nauk; PLYUSHKINA, Ye.Z.,
Inzhener

Processing sunflower seeds and soybeans according to the system of
single-stage expression and continuous extraction. Masl.-zhir.prom.
19 no.5:29-31 '54. (MLRA 7:9)

1. Trest "Krasnodarshirmslo"
(Sunflower seed oil) (Soybean oil)

MINASYAN, M.H.

KOLYPIN, A.L., inzhener.; MINASYAN, M.A., kandidat tekhnicheskikh nauk.

Operation of an oil extraction plant in Finland. Masl.-zhir. prom.
23 no. 4:38-41 '57. (MIRA 10:5)

1. Ministerstvo promyshlennosti prodrovol'stvennykh tovarov (for
Kolypin). 2. Trest "Krasnodarshirmslo" (for Minasyan).
(Finland--Oils and fats)

BOKIY, N.G.; AVOYAN, R.L.; ZAKHAROVA, G.N.; MINASYAN, M.Kh.; AKOPYAN, Z.A.;
STRUCHKOV, Yu.T.

X-ray diffraction investigation of some organometallic
compounds. Zhur.strukt.khim. 6 no.5:795-796 S-0 '65.
(MIRA 18:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
Submitted June 25, 1965.

MINASYAN, M.Ye

KIRICHENKO, A.N., professor; PAVLOVSKIY, Ye.N., akademik, glavnnyy re-
daktor; IVANOV, A.I., redaktor; KRYZHANOVSKIY, G.L., redaktor;
MONCHADSKIY, A.S., redaktor; STRELKOV, A.A., redaktor; ~~SP~~
MINASYAN, M.Ye., redaktor; BORISOV, K.A., redaktor izdatel'-
stva; ARONS, P.A., tekhnicheskij redaktor .

[Methods of collecting true hemiptera and studying local fauna]
Metody sborna nastroiashchikh polushestokrylykh i izuchenia
 mestnykh faun. Moskva, Izd-vo Akad.nauk SSSR, 1957. 120 p.
(V pomoshch' rabotaiushchim po zoologii v pole i laboratorii,
(MLRA 19:6)
7)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR(for
Pavlovskiy)
(Hemiptera)

MINASYAN, N. M.

Dissertation defended for the degree of Doctor of Juridical Sciences
at the Institute of Government and Law

"Sources of Modern International Law."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

SHAKHSUVARYAN, L.; GUKASYAN, V.; MINASYAN, R.

Deteriorations in stone structures of industrial and public buildings and causes of their formation. Prom.Arm. 6 no.12:44-48 D
'63. (MIRA 17:2)

MINASYAN, R.B.; ROKHLIN, Ye.M.; GAMBARYAN, N.P.; ZEYFMAN, Yu.V.;
KNUNYANTS, I.L.

Bis (trifluoromethyl) cyclodiazomethane. Izv. AN SSSR. Ser. khim.
no.4:761 '65. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

BABAYAN, A.T.; MARTIROSYAN, G.T.; INDZHIKYAN, M.G.; DAVTYAN, N.M.
MINASYAN, R.B.

Chemism of the mineralization process of organically combined chlorine in the alkaline cleavage of quaternary ammonium salts.
Dokl. AN Arm. SSR 39 no. 2:99-106 '64. (MIRA 17:9)

1. Chlen-korrespondent AN ArmSSR (for Babayan).

UNANYAN, M.P.; KONDRAT'YEVA, G.V.; LOCHMELIS, A.Ya.; ZAV'YALOV, S.I.;
ZEYFMAN, Yu.V.; GAMBARYAN, N.P.; MINASYAN, R.B.; KHUNYANTS, K.L.;
KOCHARYAN, S.T.; ROKHLIN, Ye.M.; KAVERZNEVA, Ye.D.; KORSHAK, V.V.;
ROGOZHIN, S.V.; DAVANKOV, V.A.; TSEYTLIN, G.M.; PAVLOV, A.I.;
ZAKHARKIN, L.I.; OKHLOBYSTIN, O.Yu.; SEMIN, G.K.; BABUSHKINA, T.A.;
BLIEVICH, K.A.

Letters to the editor. Izv. AN SSSR. Ser. khim. no.1:1909-1914
(MIRA 18:1)
'65.

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(for Unanyan, Kondrat'yeva, Lochmelis, Zav'yalov, Kaverzneva).
2. Institut elementоорганических соединений AN SSSR (for
Zeyfman, Gambaryan, Minasyan, Khunyants, Kocharyan, Rokhlin,
Korshak, Rogozhin, Davankov, Zakharin, Okhlobystin, Semin,
Babushkina, Bilevich).

BABAYAN, A.T.; INDZHIKYAN, M.G.; GRIGORYAN, A.A.; MINASYAN, R.B.;
OVAKIMYAN, M.Zh.

Amines and ammonium compounds. Part 26: Alkaline decomposition
of 1,4-diammonium salts with a butyn-2-ylene central radical
and side radicals of the allyl type. Izv. AN Arm. SSR. Khim.
nauki 18 no.2:166-174 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN ArmSSR. Submitted April
24, 1964.

USSR / Farm Animals. Cattle.

v-2

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54746.

Author : Agiyan, E. T., Matinyan, R. M., Minasyan, R. O.

Inst : Not given.

Title : The Problem of the Frequency of the Feeding of
Calves.

Orig Pub: Byul. nauchno-tekhn. inform. Arm. n.-i. in-ta
zhivotnovodstva i veterinarii, 1957, No 1, 11-14.

Abstract: During the first two months of feeding milky
rations to calves twice and thrice daily, no
differences in their development were ascer-
tained. In the second half of the milk-feeding
period, during which rations were supplemented
with roughages and concentrates, the calves fed
thrice daily, according to the author's opinion,
were developing more uniformly and intensively.

Card 1/1

21

BLRTSYAN, A.A.; MINASYAN, R.O.

Effect of inbreeding on the biological and economic
characteristics of brown Caucasian cattle. Izv. AN Arm.
SSR. Biol. nauki 17 no.4:49-57 Ap '64.

(MIRA 17:6)

1. Institut zhivotnovodstva i veterinarii Arzjanskoy SSR.

~~MINASYAN, R.S.~~

One problem in thermal conductivity. Dekl.AN Arm.SSR 12 no.3:65-71
'50. (MLRA 9:10)

1.Sekter Matematiki i Mekhaniki Akademii nauk Armyanskoy SSR, Yerevan.
Predstavlene A.G.Nazarevyn.
(Heat--Conduction)

MINASYAN, R.S.

Plane steady distribution of temperature in nonhomogeneous prismatic bodies. Izv.AN Arm.SSR.Ser. Fiz. nauch 5 no.5:1-24 '52. (MLBA 9:8)

1. Sktor matematiki i mekhaniki AN Armyanskoy SSR.
(Heat--Conduction)

USRI/Polytechnic - Mixed Boundary Problem
"Mixed Boundary Problem of Laplace's Functions for
a Rectangle," by G. M. KREIN, T. A. KEREN, V. V. KEREN, AND RAI
Pravd. Nauk. i Mat." Vol. XVI, No. 3, pp. 293-304

In thermal conduction, elasticity theory, hydro-
dynamics, etc., one often encounters the problem
in which the desired function encounters the problem
values $U = L(s)$ on part C_1 or the contour C giving its
given region and combination C of a
tion with its normal derivative $dU/dn + hU = N(s)$ on
another part C_2 of the same contour. The author

solves the mixed boundary problem of Laplace's eq.
for a rectangle under conditions of axial symmetry.
Submitted 25 Aug 51.

214728

MINASIAN, R. S.

1. MINASYAN, R. S.
2. USSR (600)
4. Heat-Conduction
7. Nonstationary flow of heat in a prismatic body with a rectangular cross section in the presence of nonstationary sources of heat. Prikl. mat. medh. 16 no. 5:533-538 S-) '52

9. Monthly List of Russian Accessions, Library of Congress February 1953. Unclassified



MINASYAN, R.S.

MINASYAN, R.S.

USSR.

Minasyan, R.S. On the steady distribution of temperature in a prismatic body of hollow rectangular cross-section and finite length. Akad. Nauk Armyan. SSR. Izv. Fiz.-Mat. Estest. Nauk 6, no. 5-6, 7, 86 (1953). (Russian. MS)

REF/R

The author considers the steady distribution of temperature in a hollow cylinder of finite length with rectangular cross-section. The boundary conditions on the bounding faces are chosen so that they are symmetric with respect to planes passing through the axis of the cylinder parallel to two adjacent faces. Thus the problem is reduced to the consideration of a temperature distribution in a solid beam of finite length with an L-shaped cross-section which represents one quarter of the original hollow cylinder, provided the additional conditions of no flow through the planes representing the cuts are imposed. The L-shaped cross-section is divided into three rectangles and a Fourier expansion of the temperature in each is found. Then by matching these expansions across the boundaries separating the three rectangles and imposing the boundary conditions, a generalized Fourier series solution is obtained in the L-shaped beam, and thus because of symmetry in the hollow cylinder made up of four such beams.

C. G. Maple.

Sector Mech. & Mechanic, Acad. Sci. Arm SSR

MINASYAN, R. S.

"One Method of Solving a Laplace Equation and Its Application to Certain Problems of Heat Convection." Cand Phys-Math Sci, Inst of Mechanics, Acad Sci USSR, 11 Feb 54.
Dissertation (Vechernaya Moskva Moscow, 2 Feb 54)

SO: SUM 186, 19 Aug 1954

MINASYAN, R. S.

"Stretching a Composite Prismatic Beam With a Weakly Bent Axis,"
Soobshch. AN Gruz. SSR, Vol 15, No 4, pp 207-214, 1954

Referring to a work of P. M. Riz (DAN SSSR, 1939, Vol 24, Nos 2 & 3), the author studies the influence of curvature on the stressed state in the stretching of a composite beam of constant cross section. The components of stress are expressed in three functions which are solutions of some definite boundary value problems for a plane composite region. The existence of the solutions of these problems is proved. (RZhMekh, No 4, 1955)

SO: Sum, No 606, 5 Aug 55

Azerbaijan Industrial Inst.

SOV/124-57-3-3392

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 108 (USSR)

AUTHOR: Minasyan, R. S.

TITLE: The Bending Due to a Transverse Force of a Twisted Prismatic Girder (Izgib poperechnoy siloy zakruchennogo prizmaticheskogo brusa)

PERIODICAL: Tr. Azerb. industr. in-ta, 1956, Nr 12, pp 35-51

ABSTRACT: The author studies, within the framework of the nonlinear theory of elasticity, the combined effect of the bending due to a transverse force and simultaneous torsion of a prismatic girder composed of different elastic materials. The problem is reduced, by use of the small-parameter method, to five boundary problems relative to the plane of the composite area (the cross section of the girder); the paper shows the tractability of these problems (see also Sharangiya, A. F., Tr. Gruz. politekhn. in-ta, 1955, Nr 2, pp 153-166).

A. K. Rukhadze

Card 1/1

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134410003-4

J.M.
Inst. math., Acad. sci. Cern. 55 R

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134410003-4"

MINASYAN, R. S.

2

Minasyan, R. S. On a solution of the problem of Dirichlet
for certain polygonal regions. Akad. Nauk Armyan.
SSR. Dokl. 22 (1956), no. 5, 193-202. (Russian.
Armenian summary)

Computation, by Fourier series methods, of the so-
lution of the Dirichlet problem for a region shaped like the
cross-section of an unsymmetrical I-beam.

M. G. Arsove (Seattle, Wash.).

MINASYAN, R.S.

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/2 PG - 596
 AUTHOR MINASJAN R.S.
 TITLE On the solution of the Dirichlet problem for rectangles in the
 case of non-separable variables.
 PERIODICAL Akad.Nauk Armjan. SSR Doklady 23, 145-152 (1956)
 Reviewed 2/1957

Let the function $U(x,y)$ satisfy in $0 \leq x \leq b$, $0 \leq y \leq d$ the equation

$$\frac{\partial^2 U}{\partial x^2} + 2\alpha \frac{\partial^2 U}{\partial xy} + \beta \frac{\partial^2 U}{\partial y^2} = P(x,y) , \quad \beta - \alpha^2 > 0$$

and the boundary conditions

$$U(x,0) = S_0(x), \quad U(x,d) = S(x), \quad U(0,y) = T_0(y), \quad U(b,y) = T(y).$$

Let $P(x,y)$ be summable, S, S_0, T, T_0 be continuous and possess summable first derivatives, $S_0(0) = T_0(0)$, $S_0(b) = T(0)$, $S(0) = T_0(d)$, $S(b) = T(d)$.

The solution is sought in the form

$$U(x,y) = \sum_{k=1}^{\infty} f_k(x) \sin \gamma_k y, \quad \gamma_k = \frac{k\pi}{d}, \quad f_k(x) = \frac{2}{d} \int_0^d U(x,y) \sin \gamma_k y dy.$$

MINASYAN, R.S.

*Effect of the bending of a homogeneous prismatical rod under the action of the couple on its bending under a transverse load. Soob.
AM Gruz. SSR 19 no.2:135-142 Ag '57.* (MIRA 11:3)

1. Azerbaydzhan'skiy industrial'nyy institut im. Azizbekova, Baku.
Predstavлено академиком N.I. Muskhelishvili.
(Elastic rods and wires)

SOV/22-11-3-3/5

AUTHOR:

Minasyan, B.S.

TITLE:

On Torsion and Bending of Anisotropic Prismatic Bars With a
 Parallelogram-shaped Cross Section (O kruchenii i izgibie
 anizotropnykh prizmaticheskikh sterzhney s poperechnym
 secheniyem v vide parallelogramma)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Seriya fiziko-
 matematicheskikh nauk, 1958, Vol 11, Nr 3, pp 41-62 (USSR)

ABSTRACT: § 1. The author considers the torsion of an anisotropic prismatic bar, the axis of which runs in the direction of the z-axis and which is bounded by the surfaces $y = \operatorname{ctg} \chi \cdot x$, $y = \operatorname{ctg} \chi \cdot (x-b)$, $y = 0$, $y = d$. In this case the tension function $\psi(x,y)$ satisfies the equation

$$(1) \quad a_{44} \frac{\partial^2 \psi}{\partial x^2} - 2a_{45} \frac{\partial^2 \psi}{\partial x \partial y} + a_{55} \frac{\partial^2 \psi}{\partial y^2} = -2\delta, \quad a_{44} a_{55} - a_{45}^2 > 0,$$

where δ is the unknown angle of torsion. By the coordinate transformation

$$x - \omega y = \xi, \quad \sqrt{\omega} y = \eta, \quad \beta = \frac{a_{44} + 2\omega a_{45} + \omega^2 a_{55}}{a_{55}}, \quad \omega = \operatorname{tg} \chi$$

Card 1/3

SOV/22-11-3-3/5

On Torsion and Bending of Anisotropic Prismatic Bars With a
Parallelogram-shaped Cross Section

from (1) with the notations

$$\Psi(x, y) = \frac{\partial}{\partial \xi} U(\xi, \eta), \quad \alpha = \frac{a_{45} + \omega a_{55}}{\sqrt{a_{55}}} S, \quad S = a_{44} + 2\omega a_{45} + \omega^2 a_{55}$$

one obtains the equation

$$\frac{\partial^2 U}{\partial \xi^2} - 2\alpha \frac{\partial^2 U}{\partial \xi \partial \eta} + \frac{\partial^2 U}{\partial \eta^2} = -2.$$

For the determination of $U(\xi, \eta)$ the author uses the results of [Ref 2], namely $U(\xi, \eta)$ simultaneously is set up in the form of two series

$$U(\xi, \eta) = \sum_{k=1}^{\infty} f_k(\xi) \sin \gamma_k \eta, \quad U(\xi, \eta) = \frac{\varphi_0(\xi)}{2} + \sum_{k=1}^{\infty} \varphi_k(\xi) \cos \gamma_k \eta;$$

where $\gamma_k = \frac{k\pi}{d_1}$, $d_1 = \sqrt{\beta} d$. The consideration of the boundary conditions leads to infinite systems of linear algebraic equations § 2 contains a detailed investigation of these systems and gives expressions for $U(\xi, \eta)$, $\varphi(x, y)$, τ_{xz} , τ_{yz} etc. in dependence

Card 2/3



On Torsion and Bending of Anisotropic Prismatic Bars With a SOV/22-11-3-3/5
Parallelogram-shaped Cross Section

of the solutions of the above algebraic systems. In the special case $a_{45} = -\omega$ for $U(\xi, \eta)$ one obtains the classical result [Ref 5]. § 3 gives a numerical example and upper and lower estimations of the numerical solutions. § 4. With the same method the bending of the bar is investigated if the force P acts at the free end of the bar in the center of gravity of the cross section parallel to the x -axis. The tensions are sought in the form

$$\tau_{xz} = \frac{P}{J} \left[\frac{\partial \psi}{\partial y} - \frac{1}{2}(x-\omega y)(b-x+\omega y) - \frac{\omega^2}{2} y(d-y) \right]$$

$$\tau_{yz} = -\frac{P}{J} \left[\frac{\partial \psi}{\partial x} + \frac{\omega}{2} y(d-y) \right].$$

There are 3 figures, 2 tables and 8 references, 6 of which are Soviet and 2 French.

ASSOCIATION: Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR
(Institute for Mathematics and Mechanics of the Academy of Sciences of the Armenian SSR)

SUBMITTED: February 8, 1958

Card 3/3

1. Beams--Torque 2. Beams--Deformation 3. Mathematics

MINASYAN, R.S.

Plane stationary distribution of heat in a prismatic body of hollow
rectangular cross section with heat exchange on all sides. Dokl. AN
Arm. SSR 28 no.4:159-169 '59. (MIRA 12:11)

1. Institut matematiki i mekhaniki AN ArSSR. Predstavлено академиком
АН АрмССР М.М. Дзрбашяном.
(Heat--Transmission)

MINASHAN, R.S.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,

Moscow, 27 Jan - 3 Feb '60.

- 146. A. D. Iakunin (General): On some problems of science
of the radioactive plasma. Page.
- 147. Yu. N. Kondratenko (General): Viscoelasticity at room temperature.
- 148. P. S. Kostylev (General): Plasticity of metals under constant loading.
- 149. Yu. L. Leont'ev (General): Some problems of mathematical theory of plasticity.
- 150. A. V. Lykov (General): On the problem of the propagation of waves in a semi-infinite medium.
- 151. A. V. Lykov (General): Some problems of the propagation of waves in a semi-infinite medium.
- 152. A. V. Lykov (General): The propagation of the torsional wave.
- 153. A. V. Lykov (General): The propagation of the longitudinal wave.
- 154. A. V. Lykov (General): The propagation of the shear wave.
- 155. A. V. Lykov (General): The propagation of the longitudinal wave under constant loading.
- 156. A. V. Lykov (General): Plasticity law of metals under constant loading.
- 157. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 158. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 159. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 160. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 161. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 162. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 163. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 164. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 165. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 166. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 167. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 168. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 169. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 170. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 171. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 172. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 173. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 174. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 175. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 176. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 177. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 178. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 179. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 180. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 181. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 182. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 183. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 184. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 185. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 186. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 187. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 188. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 189. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 190. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 191. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 192. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 193. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 194. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 195. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 196. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 197. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 198. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 199. A. V. Lykov (General): Plasticity and stability of structures under constant loading.
- 200. A. V. Lykov (General): Plasticity and stability of structures under constant loading.

MINASYAN, R.S.

Remarks pertaining to Shvarts' alternating method. Sib. mat.
(S.M. 14:2)
zhur. 1 no. 4:632-638 L-D '60.
(harmonic functions)

MIRASTAN, R. S.

Bending under stress of a uniform girder of constant cross section
with a slightly bent axis. Dokl. AN Azerb. SSR 16 no. 3; 233-237 '60.
(MIRA 13:7)

I. AzIMKhIM im. M. Asirbekova. Predstavleno akademikom AN AzerSSR
Z. I. Khalilovym. (Girders)

MINASYAN, R.S.

Problem of the flexure of a composite rod with a slightly bent axis by a pair of forces. Dokl. AN Azerb. SSR 16 no.4:331-335 '60.

I. Azerbaydzhanaskiy institut nefti i khimii im. M. Arisbekova.
Predstavleno akad. AN Azerbaydzhanской SSR Z.I. Khalilovym.
(Flexure) (Elastic rods and wires)

S/124/61/000/009/030/058
D254/D303

AUTHOR: Minasyan, R.S.

TITLE: On the mixed problem of bending a square plate with a square hole

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 9, 1961, 8, abstract 9 V70 (Dokl. AN ArmSSR, 1960, 30, no. 1, 19-29)

TEXT: The problem of transverse bending of a square plate with a square hole is solved; the center of both squares coincides and their sides are parallel. It is supposed that the external contour of the plate is freely supported, the internal one is rigidly fixed and the transverse load $P(x,y)$ is symmetrical with respect to the axes and the diagonals of the squares. The problem is reduced to solving the equation $D\Delta^2 = P(x,y)$, $P(x,y) = P(y,x)$ (w is the deflection, Δ the Laplace operator, D the cylindrical rigidity, x,y the rectangular coordinates) in a non-convex 6-dimensional do-

Card 1/2

S/124/61/000/009/050/058
D254/D303

On the mixed problem...

main determined by the inequalities $0 \leq x \leq b$, $c \leq y \leq b$ at $x < c$
 $0 \leq y \leq b$ at $x > c$. Auxiliary functions $U = \Delta W$ and $W_1(x,y) =$
 $W(x,y)$ at $c \leq y \leq b$, $W_2(x,y) = W(x,y)$ at $0 \leq y \leq c$ are introduced;
 $U_1(x,y)$ and $U_2(x,y)$ are determined in an analogous way. The func-
tions W_1 and U_1 are expanded into the Fourier series

$$W_1(x,y) = \sum_{k=1}^{\infty} f_k(x) \sin \frac{k\pi(y-c)}{b-c}$$

$$U_1(x,y) = \sum_{k=1}^{\infty} \varphi_k(x) \sin \frac{k\pi(y-c)}{b-c}$$

For the coefficients $f_k(x)$ and $\varphi_k(x)$ a certain system of differen-
tial equations of the second order is obtained in the usual way.
Boundary conditions and conditions of coupling on the straight line
 $y = c$ lead to an infinite system of linear equations, for which it
is proved that it has a unique bounded solution. [Abstracter's
note: Complete translation.]

Card 2/2

MINASYAN, R. S.

Mixed problem on the bending of a cruciform plate. Dokl. AN Arm. SSR
30 no. 4: 201-209 '60.
(MIRA 13:8)

I. Institut matematiki i mekhaniki Akademii nauk Arzjanskoy SSR.
Predstavleno akadem. AN Arzjanskoy SSR M.M. Dzhrbashyanom.
(Elastic plates and shells)

MINASYAN, R.S.

Effect of the bending by a pair on the bending by a transverse
force of a prismatic beam composed of various elastic materials.
Trudy GPI [Gruz.] no.6:87-95 '61. (MIRA 16:4)
(Beams and girders—Elastic properties)

MINASYAN, R.S.

Bending by a transverse force of a composite rod with a slightly bent axis. Dokl. AN Azerb. SSR 17 no. 3:197-202 '61.
(MIRA 14:5)

1. Azerbaydzhanskiy institut khimii nefti. Predstavлено
академиком AN Azerbaydzhanskoy SSR Z.I. Khalilovym.
(Elastic rods and wires) (Flexure)

MINASYAN, R.S.

Bending of an extended prismatic beam composed of different elastic materials by a transverse force. Dokl.AN Azerb.SSR 17 no.11:1009-1015 '61.
(MIRA 15:2)

1. Institut nefti i khimii imeni M.Azizbekova. Predstavлено
академиком АН АзССР З.И.Халиловым.
(Beams and girders)

MINASYAN, R.S.

Oblique flexure by the force of a homogeneous prismatic beam.
Soob. AN Gruz. SSR 28 no.6:649-656 Je '62. (MIRA 15:7)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azisbekova.
(Deformations (Mechanics))

*10.3100
26.2181*

39525

S/252/62/034/003/001/061
1027/I237

AUTHOR: Minasyan, R. S.

TITLE: On the heat circulation in a revolving non-homogenous ball in the presence of heat-exchange with the surrounding environment *Vol. 34*

PERIODICAL: Akademiya nauk Armyanskoy SSR. Doklady, no. 3, 97-**104**, 1962

TEXT: The temperature distribution is found in a uniformly revolving ball exchanging heat with the surroundings, where the ball consists of two parts with different thermal characteristics: a core $0 < r < r_0$ and a shell $r_0 < r < R$. In the quasi-stationary state, the temperature U_1 of the cone and the temperature U_2 of the shell satisfy the following equations in polar coordinates r, θ, ϕ :

$$\omega \frac{\partial U_l}{\partial \phi} = \frac{a_l}{r^2} \left[\frac{\partial}{\partial r} \left(r^2 \frac{\partial U_l}{\partial r} \right) + \frac{1}{\sin \theta} \frac{\partial}{\partial \theta} \left(\sin \theta \frac{\partial U_l}{\partial \theta} \right) + \frac{1}{\sin^2 \theta} \frac{\partial^2 U_l}{\partial \phi^2} \right]$$

for $l = 1, 2$ and the boundary conditions

$$U_1|_{r=r_0} = U_2|_{r=r_0}; \quad \lambda_1 \frac{\partial U_1}{\partial r}|_{r=r_0} = \lambda_2 \frac{\partial U_2}{\partial r}|_{r=r_0}; \quad \frac{\partial U_2}{\partial r}|_{r=R} = h[T(\phi, \theta) - U_2|_{r=R}].$$

Card 1/2

X

On the heat circulation...

S/252/62/034/003/001/001
I027/I237

where ω is the angular velocity, $a_1, \lambda_l (l=1,2)$ and h are coefficients of heat conduction, temperature conduction, and heat exchange with the surroundings resp.. $T(\phi, \theta)$ is the temperature of the surrounding environment.

Introducing new variables $\cos \theta = \zeta$; $U_l(r, \phi, \theta) = r^{-1/2} U_l^*(r, \phi, \zeta)$ the equations for U_l^* are solved by developing:

$$U_l^*(r, \phi, \zeta) = \sum_{k=-\infty}^{\infty} \sum_{j=1}^{\infty} F_{j,k}^{(l)}(r) P_j^k(\zeta) e^{ik\phi}$$

(where $P_j^k(\zeta)$ are the associated Legendre functions), and solving the resulting equations for $F_{j,k}^{(l)}(r)$. Simpler expressions are obtained for the following special cases

- a) $\lambda_1 = \lambda_2$, $a_1 = a_\lambda$ (homogeneous ball), b) $h = 0$ (no heat exchange), c) $h \rightarrow \infty$ (a given temperature distribution at the surface), d) $\lambda_1 = 0$, e) $\omega = 0$ (non-revolving ball),

ASSOCIATION: Institut matematiki i mekhaniki, Akademii nauk Armyanskoy SSR (Institute of Mathematics and Mechanics, Academy of Sciences, Armyanskaya SSR)

PRESENTED: January 29, 1962, by M.M. Dzhrbashyan, Academician

X

Card 2/2

MINASYAN, R.S.

Oblique flexure by force of a sectional prismatic beam. Izv.
AN Azerb. SSR. Ser. fiz.-mat i tekhn. nauk no.2:113-123 '63.
(MIRA 16:10)

MINASIAN, R.S.

Tension of a sectional round prismatic rod in the "quadratic" theory of elasticity. Izv. AN Azerb. SSR. Ser. fiz.-tekhn. i mat. nauk no.1:115-120 '64. (MIRA 17:9)

L 150/0-65 - EMT(1)/EPA(s)-2/EPP(n)-2/EMG(v)/EPR/EWA(1) - Pe-5/Ps-4/Pt-10/Pu-4
 ASD(s)-5/BSD/AFWL/AEDC(a)/AFETR/ESD(dp) W: S/0170/64/000/011/0082/0089
 ACCESSION NR: APL018855

AUTHOR: Minasyan, R. S.

TITLE: Steady state heat propagation in a right parallelepiped

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 11, 1964, 82-89

TOPIC/TAGS: heat propagation, differential equation, heat exchange, temperature distribution

NOTE: The author solves the heat equation

where $F(x, y, z)$ is the intensity of heat release inside a right parallelepiped (that is, a figure with base a parallelogram, whose side along the x axis has length a , and whose other side has length c and makes an angle γ with the y axis, and whose walls are perpendicular to the base), subject to

$$\frac{\partial U}{\partial z} \Big|_{z=0} = h_1(U(x, y, 0) - T_1(x, y)) - \frac{\partial U}{\partial z} \Big|_{z=c} = h_2(U(x, y, c) - T_2(x, y)); \quad (2)$$

Card 1 of 1

L 15040-65

ACCESSION NR#: AP4048855

$$U(x, 0, z) = S_1(x, z); \quad U(x, c, z) = S_2(x, z);$$

$$U(\omega y, y, z) = R_1(y, z); \quad U(a + \omega y, y, z) = R_2(y, z)$$

where λ is the coefficient of heat conduction, h_1 , h_2 and $T_1(x, y)$, $T_2(x, y)$ are the coefficients of heat exchange and the temperature of the ambient medium on the bases $z = 0$ and $z = d$; $\omega = \operatorname{tg} X$. A change of variables is made to reduce this to an equation concerning a rectangular parallelepiped in which the variables are not separable. The solution U^* of this equation is developed as a series

$$U^*(x_1, y, z) = \sum_{k=0}^{\infty} U_k(x_1, y) \eta_k(z), \quad (3)$$

where $U_k(x_1, y) = \int_0^d U^*(x_1, y, z) \eta_k(z) dz$, and $\eta_k(z)$ are eigenfunctions of the boundary value problem

$$\eta'(z) + \zeta^2 \eta(z) = 0; \quad -\eta'(0) + h_1 \eta(0) = \eta'(d) + h_2 \eta(d) = 0. \quad (4)$$

This leads to an extremely amenable infinite system of linear algebraic equations. From this the author proves uniqueness as well as extremely rapid convergence of his developed series. Some examples are examined. Orig. art. has: 22 formulas.

Card 2/3

L 15040-65
ACCESSION NR: APL048855

ASSOCIATION: Institut matematiki i mehaniki AN Armyskoy SSR, g. Yerevan
(Institute of Mathematics and Mechanics, AN Armenian SSR)

SUBMITTED: 08Oct63

ENCL: 00

SUB CODE: TD, MA

NO REF Sov: 006

OTHER: 00L

ACCESSION NR: AP4033060

8/0252/64/038/002/0077/0085

AUTHOR: Minasyan, R. S.

TITLE: Problem of steady state heat propagation in a composite rectangular parallelepiped (Presented by A. L. Shaginyan, Academician, AN Armenian SSR on 09 December 1963)

SOURCE: AN ArmSSR. Doklady*, v. 38, no. 2, 1964, 77-85

TOPIC TAGS: heat propagation, rectangular parallelepiped, thermophysical characteristic, heat exchange, ambient medium, temperature distribution, separation of variables

ABSTRACT: Using the technique of separation of variables, the author finds an effective solution of the problem of steady state heat propagation in a parallelepiped with an internal heat source. The parallelepiped is inhomogeneous, being composed of two media with different thermophysical characteristics. There is heat exchange with the ambient medium on part of the boundary, and the temperature distribution on the remaining parts of the boundary is given. Orig. art. has: 20

Card 1/2

ACCESSION NR: AP4033060

formulas and 2 figures.

ASSOCIATION: Institut matematiki i mehaniki Akademii nauk Arwyanskoy SSR
(Institute of Mathematics and Mechanics, Academy of Sciences, Armenian SSR)

SUBMITTED: 00

DATE ACQ: 07May64

ENCL: 00

SUB CODE: AI

NO REF Sov: 004

OTHER: 000

Card 2/2

L 25643-65 EPF(c)/EPF(n)-2/EPR/EWT(1)/EPA(t,-) -2/I/EWA(1) Px-4/PB-4/Pu-4
ACCESSION NR: AP5004280 WW 8/0252/64/039/005/0257/0264 39
25
B

AUTHOR: Minasyan, R. S.

TITLE: Two-dimensional stationary flow of heat in a composite cylinder in the presence of heat exchange with two different surrounding media

SOURCE: AN ArmSSR. Doklady, v. 39, no. 5, 1964, 257-264

TOPIC TAGS: two dimensional heat exchange, heat transfer, heat flow, thermo-dynamic system

ABSTRACT: An effective solution is presented for the problem of stationary flow of heat in a round inhomogeneous infinite cylindrical system, consisting of a solid cylinder situated inside a hollow concentric cylinder having different thermal characteristics, with the outer surface exchanging heat with two different media. It is assumed that heat was generated inside the body. The problem is to solve the differential equation

$$\frac{\partial^2 U_l}{\partial r^2} + \frac{1}{r} \frac{\partial U_l}{\partial r} + \frac{1}{r^2} \frac{\partial^2 U_l}{\partial \varphi^2} = -\frac{1}{\lambda_l} Q_l(r, \varphi) \quad (l = 1; 2). \quad (1)$$

Card 1/2

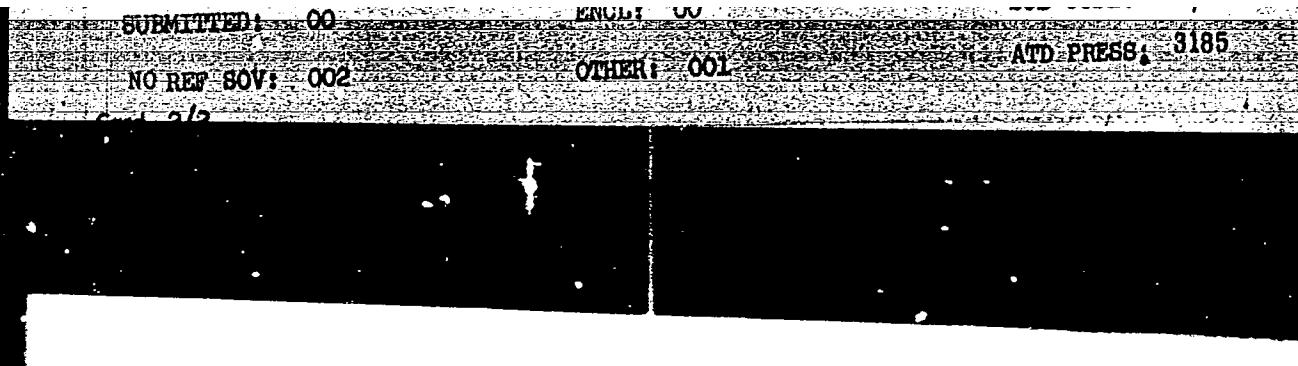
L 25643-65
ACCESSION NR: AP5004280

where U_1 is the temperature of the internal cylinder, U_2 the temperature in the space between the inner and outer cylinders, and r and φ are polar coordinates, with λ_i the coefficient of thermal conductivity of the medium i , and Q_1 the intensity of heat release. The equation is solved under suitable boundary and continuity conditions by expanding the functions U_1 and U_2 in Fourier series and determining the unknown coefficients. This yields an infinite system of equations, in which the coefficients of the k -th equation vanish as $Gk^{1/2}$ when k increases, where $G = 4(h_1 - h_2)c/\pi$, h — heat-exchange coefficient, and c — radius of outer cylinder. The final equations converge rapidly. The particular cases of a homogeneous cylinder, a hollow cylinder with thermally insulated internal surface, and homogeneous surrounding medium are considered and simplified equations derived. This report was presented by M. M. Dzhrbashyan. Orig. art. has: 1 figure and [02] 20 formulas.

ASSOCIATION: Institut matematiki i mehaniki Akademii nauk Armyanskoy SSR (Institute of Mathematics and Mechanics, Academy of Sciences, AramSSR)

SUB CODE: TD, ME

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410003-4



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134410003-4"

0376/65/001/006/0840/0846
 FF 4/Peb NW/JW/EM
 ACCESSION NR: AP5017759

UR/0376/65/001/006/0840/0846

AUTHOR: Minasyan, R. S.

TITLE: On a problem of heat propagation in a rotating cylinder.⁶

SOURCE: Differentsial'nyye uravneniya, v. 1, no. 6, 1965, 840-846

TOPIC TAGS: thermodynamics,²¹ heat propagation, plane heat propagation, homogeneous rotating circular cylinder

ABSTRACT: A solution of the problem of plane propagation of heat in an infinite circular, homogeneous cylinder rotating at a constant circular velocity ω is presented in the case when heat exchange with two distinct media takes place on its surface. It is assumed that the temperature of the surrounding media, which changes arbitrarily along the circumference, on the surface of the cylinder does not depend on time. In this case, the temperature field $U(r, \varphi)$ of the cylinder is quasi-stationary and satisfies the following second-order partial differential equation

$$-\frac{\partial U}{\partial \varphi} = a \left(\frac{\partial^2 U}{\partial r^2} + \frac{1}{r} \frac{\partial U}{\partial r} + \frac{1}{r^2} \frac{\partial^2 U}{\partial \varphi^2} \right). \quad (1)$$

Card 1/2

L 58349-65
 ACCESSION NR: AP5017759

where a is the coefficient of thermal conductivity, and certain conditions on the surface of the cylinder. The solution $U(r, \varphi)$ of (1) is sought in the form of an infinite series

$$U(r, \varphi) = A_0 + \sum_{k=1}^{\infty} [f_k(r) \sin k\varphi + g_k(r) \cos k\varphi], \quad (2)$$

where $f_k(r)$ and $g_k(r)$ are expressions containing the unknown constant coefficients c_k and d_k . Two infinite systems of linear algebraic equations are derived to determine c_k and d_k . The solvability of the systems is analyzed and the rate of convergence of c_k and d_k toward zero is established. The coefficients c_k and d_k are established and the final form for $U(r, \varphi)$, which is rapidly convergent, is derived. Two particular cases are investigated. Orig. art. has: 24 formulas and 1 figure. [LX]

ASSOCIATION: Institut matematiki i mehaniki AN Armyanskoy SSR (Institute of Mathematics and Mechanics, AN Armenian SSR)

SUBMITTED: 09Nov64

ENCL: 00

SUB CODE: ID

NO. REF. Sov.: 006

OTHER: 006

ATT. PRESS: 4042

Card 2/2

MINASYAN, R.S.

Using the method of natural electric current to determine under-
ground seepage from Lake Sevan. Izv. AN Arm. SSR. Nauki o zem. 18
no.1:41-46 '65. (MIRA 18:5)

1. Gosudarstvennyy geologicheskiy komitet Armyanskoy SSR, Geo-
fizicheskaya ekspeditsiya.

MINASTAN R.S.

New data on the characteristics of sublava relief in the northern part of the Gegamakoye upland. Izv. AN Arm. SSR. Nauki o zem. 18 no. 3/4:49-53 '65. (MLRA 18-9)

1. Geofizicheskaya ekspeditsiya Gosudarstvennogo proizvodstvennogo geologicheskogo komiteta Armyanskoy SSR.

MINASYAN, R.S.

Prblem concerning heat propagation in a rotating cylinder.

Diff. urav. 1 no.6:840-846 Je '65.

(MIRA 18:7)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

BABAYAN, A.T.; INDZHIKYAN, M.G.; GRIGORYAN, A.A.; MINASYAN, R.V.

Rearrangement-cleavage of quaternary ammonium salts containing
 α -allenallyl and α -acetylenallyl systems. Izv. AN Arm.SSR.
Khim.nauki 15 no.6:567-569 '62. (MIRA 16:2)
(Ammonium compounds) (Unsaturated compounds)
(Rearrangements (Chemistry))

BABAYAN, A.T.; INDZHIKYAN, M.G.; GRIGORYAN, A.A.; MINASYAN, R.V.

Amines and ammonium compounds. Part 17: Alkaline cleavage of ammonium salts containing an electron-acceptor substituent in the δ -position in the β,γ -unsaturated group. Zhur. ob. khim., 33 no.6:1766-1773 Je 63. (MIRA 16:7)

1. Institut organicheskoy khimii AN Armyanskoy SSR.
(Ammonium compounds) (Alkalies) (Unsaturated compounds)

MINASYAN, S.

Automatic control in the machinery industry and its economic efficiency. Prom. Arm. 4 no. 1:27-31 Ja '61. (MIRA 14:6)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta elektromekhaniki.
(Automation)
(Armenia—Machinery industry)

MINASYAN, S., inzh.

Problems of technological progress in the manufacture of machinery
in Armenia. Prom.Arm. 5 no.2:7-10 F '62. (MIRA 15:2)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
(Armenia-Machinery industry)

SIMONYAN, Ye., starshiy nauchnyy sotrudnik; MINASYAN, Sh., starshiy inzhener
Upraising ventilation shafts at the Kafan copper deposits. Prom.
Arm. 4 no.2:44-47 F '61. (MIRA 14:6)

1. Nauchno-issledovatel'skiy gornometallurgicheskiy institut
Sovnarkhoza Armyanskoy SSR (for Minasyan).
(Kafan--Copper mines and mining)

MINASYAN, Sh.; DATTYAN, E.; DANIYELYAN, E.

High-speed mining of a crosscut at the Kafan Copper-Mining
Combine. Prom.Arm. 4 no.6:48-52 Je '61. (MIRA 14:8)

1. Sovmarkhoza Armyanskoy SSR (for Minasyan, Davtyan). 2.
Kafanskiy mednorudnyy kombinat.
(Kafan--Copper mines and mining)

ATOYAN, V., inzh.; MINASYAN, Sh., inzh.

Comparison evaluation of stabilization methods against the oxidation
of transformator oils. Prom.Arm. 5 no.2:29-32 F '62.

(MIRA 15:2)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
(Armenia--Insulating oils)

MINASYAN, S. A.

M D Some data on new ethereal oils for the food industries
A. Khrimyan and S. A. Minasyan, Izdat. Akad. Nauk
Armen. S.S.R., Biol. i Sel'khoz. Nauki 8, No. 11, 131-4
(1965) (in Russian, Armenian summary 134-5).—Ethereal
oils were extd. from 6 different varieties of mint, ergonon
(Canadian), geranium, Artemisia, summer savory, and
lavender collected at the time of flowering. Thirteen ethere-
al oils were obtained: limanol (cinnamal), sweet linool,
balsam, menthol, ergonon, cat menthol, geranium, aro-
matic Artemisia, regular Artemisia, thyme, savory, and
lavender. These oils were fed to mice in increasing doses
with no ill effect. Some of these oils were then used in
liqueurs and they were highly praised and are to be used in
alc. drinks. J. S. Luffe

①

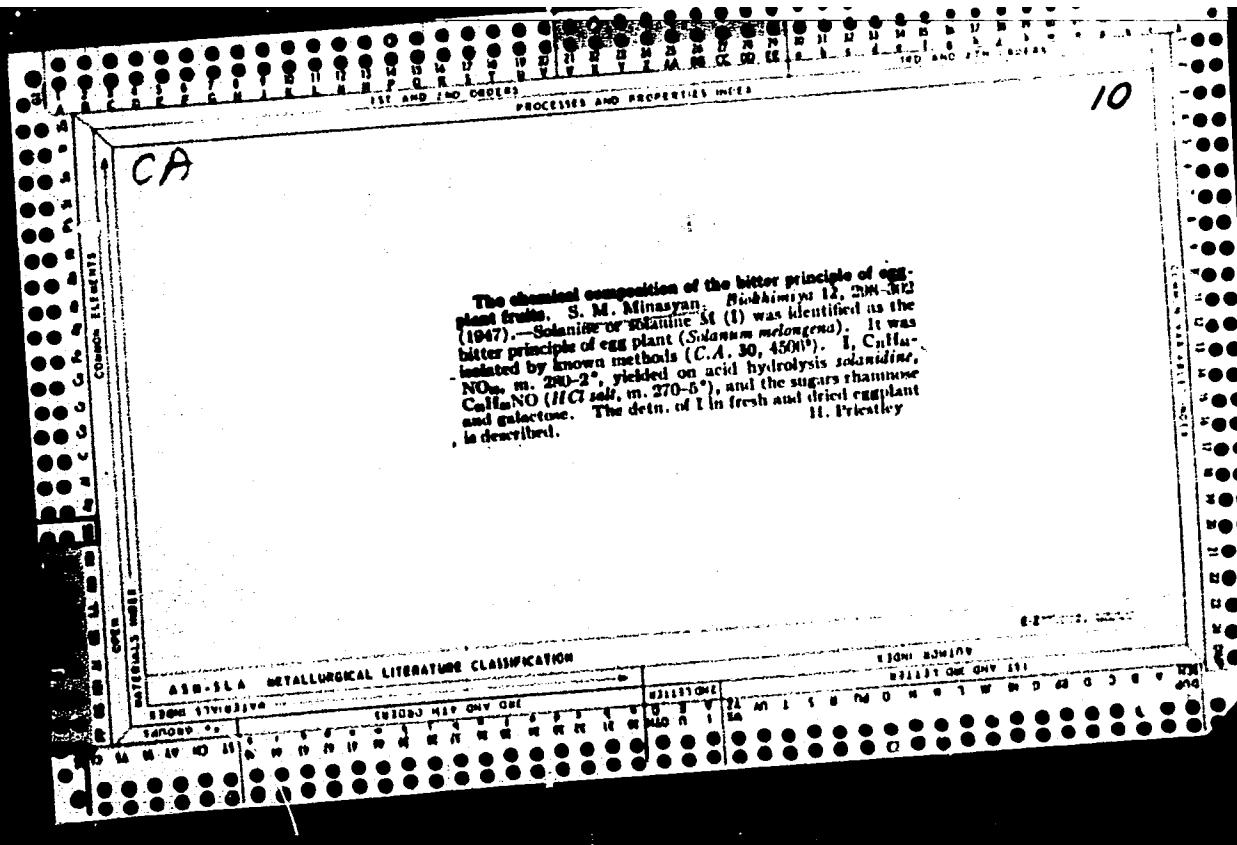
MINASYAN, S. G.

4768. MINASYAN, S. G. Torgovlye morozhenye bez primeneniya l'da i soli. m. gosstorgisdat, 1954. 32 s. sill. 20 sm. (b-ka po obmenu peredovym opytom v torgovle). 20,000 eks. 50 k. -na obl. avt: s. g. minasyan - (55-443)P
658.8:663.674

SO: Letopis' Zhurnal' mykh Statey, Vol. 7, 1949

MINASYAN, S.M., inzh.

Technological and economic evaluation of the automation of a cold
sheet-metal working process. Vest. elektro prom. 32 no.4:5-8
Ap '61. (MIRA 15:5)
(Automatic control) (Sheet-metal work)



MINASYAN S. M.

PA 21T96

USSR/Medicine - Solanine
Medicine - Food

Jun/Aug 1947

"The Chemical Composition of the Bitter Clement in
Plant Fruits," S.M. Minasyan, Laboratory of Chemistry
and Technology, Armenian Experimental Fruit and Vege-
tables Selection Station, 5 pp

"Biochimiya" Vol. XXI, No. 4

Solanine is found to be the bitter constituent. It
was isolated in crystal form, called solanine M; ex-
perimental formula $C_{21}H_{31}NO_{12}$. Its components are
solanidine ($C_{21}H_{31}NO$) and the sugars galactose and
rhamnose. Solanine M content is greatest at the time
of biological ripeness.

21T96

MINASYAN, S.M.

Chemical and technical evaluation of local apricot varieties. Izv.
AN Arm.SSR.Biol.i sel'khoz.nauki. 3 no.12:1141-1150 '50.(MLBA 9:8)

1. Institut plodrodstva Akademii nauk Arm.SSR.
(Armenia--Apricot--Varieties)

MIRASYAN, S.M.

Some data on the characteristics of apricot seeds, collected in
various phases of embryogenesis; preliminary report. Izv. AN Arm.
SSR. Biol. i sel'khoz. nauki. 5 no.2:71-82 '52. (MLRA 9:8)

1. Institut plodovedstva Akademii nauk Armyanskoy SSR.
(ARMENIA--APHICUT)

MIMASYAN, S.M.

New data on the characteristics of apricot and peach seeds at various stages of their embryonal development. Report no.2. Izv.AN Arm.
SSR.Biol.i sel'khoz.nauki. 5 no.10:15-31 '52. (MLRA 9:8)

1. Institut plodovodstva AN Armyanskoy SSR.
(Apricot) (Seeds) (Botany--Embryology)

MINASYAN, S.M.; SANAGYAN, M.B.

Materials on a study of sweet cherries and common cherries in the environs of Erivan. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki. 5 no.11: 79-86 '52. (MLRA 9:8)

1. Institut plodovodstva AN Arm. SSR.
(Erivan--Cherry)

FINAL COPY S.M.

Changes of proteinaceous and nonproteinaceous nitrogen in different histological elements of apricot seeds in the process of embryogenesis. G. M. Mil'yanov. Izdat. Akad. Nauk Arzrjan. S.S.R., Nauč.-Tekhn. Knizh. 6, No. 6, 45-60 (1953). Referat. Zhur. Khim. 1954, No. 20795.—The content and changes in proteinaceous and non-proteinaceous N in the acculum, radicle, cotyledon, and embryo of 2 varieties of apricots (Brevan and Degin Saten) were studied at intervals of 5-30 days beginning with the 16th day after blooming and lasting to the 176th day after blooming. As the plant embryo developed the % content of proteinaceous and non-proteinaceous N decreased, particularly in the radicle, while the absolute quantity of protein increased. The protein content of the germ only in the Brevan variety decreased while in the Degin Saten it increased. To this is attributed the high percentage of Degin Saten germination and the rather low germination of Brevan.

M. Hovech

MINASYAN , S.M.

MINASYAN, S.M.

Chemical variability in seeds. Izv.AN Arm.SSR.Biol.i sel'khoz.
nauki 6 no.12:69-73 '53. (MLRA 9:8)

1. Institut plodovedstva Akademii nauk Armyanskoy SSR.
(Seeds)

MIMASYAN, S.M.; KARANYAN, P.G.

Materials on the chemical composition of pears and currents raised
in Leninakan. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki 7 no.7:41-50
Jl '54. (MLRA 9:8)

1. Institut plodovodstva Akademii nauk Arm. SSR.
(Leninakan--Fruit--Chemical composition)
(Pear--Varieties)
(Currants--Varieties)

MINASYAN, S.M.; KOSTANYAN, B.A.

Variation in the quantity of food reserves in tomato seeds produced by different methods of sexual reproduction. Izv. AN Arm. SSR. Biol. i sel'khoz. nauki 7 no.8:51-58 Ag '54. (MLBA 9:8)

1. Institut genetiki i selektsii rasteniy AN Arm. SSR.
(Tomatoes) (Seeds)

MINASYAN, S.M.

Some chemical indexes of chlorotic leaves of some fruit crops.
Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 8 no.2:63-66 F '55. (MERA 9:8)

1. Institut plodovodstva AN Arm. SSR.
(Chlorosis (Plants)) (Leaves) (Fruit--Diseases and pests)

MINAS YAN, S.M.

MD ✓ The chemical composition of dried apricots of the Erevan neighborhood. S. M. Minasyan. Izvest. Akad. Nauk Armenian S.S.R., Biol. i Sel'khoz. Nauki 8, No. 11, 49-63 (1955)(in Russian; Armenian summary, 53).—Seven varieties of apricots at 3 stages of ripening (incomplete, technological, and physiol.) were analyzed when fresh and after drying for total dry wt., total (in terms of glucose) sugars, monosaccharides and disaccharides, acidity, and ratio of sugar to acid. In drying incompletely ripe fruit there is an intensive formation of mono- and disaccharides and a lowering of acidity. Some varieties of incompletely ripe fruit, upon drying, end up with more sugars than from technological and physiol. types. J. S. Ioffe

MIMASIAN, S.M.

Some differences in apricot and peach seeds during various stages of
embryonic development. Izv. AN Arm. SSSR. Biol. i sel'khoz. nauki
11 no.3:47-50 Mr '58. (MIRA 11:3)

1. Institut plodovodstva, vinogradarstva i vinodeliya Ministerstva
zemledeliya ArmSSR.
(Apricot) (Peach) (Proteins)

MINASYAN, S.M.; GUKASYAN, L.A.

Amount of plastic reserve substances in the grain of double-cross interlinear corn hybrids. Izv.AN Arm.SSR.Biol.nauki 12 no.7:85-87 Jl '59. (MIRA 12:10)

1. Institut zemledeliya Ministerstva sel'skogo khozyaystva ArmSSR.

(ARMENIA--CORN BREEDING)
(GRAIN--ANALYSIS AND CHEMISTRY)

MINASYAN, S.M.; KHODZHUMYAN, G.A.

Concentration of chemical compounds in annual shoots as a frost-resistance index of peach, plum, apricot and pear varieties. Iss. AN Arm. SSR. Biol. nauki 13 no.12:19-28 D '60. (MIRA 13:12)

1. Institut vinodeliya, vinogradstva i plodovodstva Ministerstva sel'skogo khozyaystva ArmSSR.
(PLANTS—FROST RESISTANCE) (FRUIT TREES)
(PLANTS—CHEMICAL COMPOSITION)

MINASYAN, S.M.; BEKIRSKI, D.M.

Relationship between the amount of plastic substances in annual shoots and productivity in cherry trees. Izv. AN Arm. SSR. Biul. nauki 14 no.7:63-70 Jl '61. (MIRA 14:9)

1. Institut vinogradarstva, vinodeliya i plodovodstva Ministerstva sel'skogo khozyaystva Armyanskoy SSR.
(CHERRY) (PRUNING) (PLANTS--CHEMICAL ANALYSIS)

MINASYAN, S.M.; KHODZHUMYAN, G.A.

Effect of various methods of pruning on the chemical compositions
of annual shoots and fruits of the Anna Shpet plum. Izv. AN Arm.
SSR. Biol. nauki 15 no.5:31-38 My '62. (MIRA 17:6)

1. Institut vinodeliya, vinogradarstva i plodovodstva Ministerstva
sel'skogo khozyaystva Armyanskoy SSR.

MINASYAN, S.M.; KHODZHUMYAN, G.A.

Evaluation of winter-hardy varieties of pears and plums by
calculating the chemical compounds in annual shoots per
unit of buds. Izv. AN Arm. SSR. Biol. nauki 16 No.4:39-44'63.
(MIRA 16:6)

1. Armyanskiy nauchno-issledovatel'skiy institut vinogradarstva
vinodeliya i prodrovodstva.
(PIER—VARIETIES) (PLUS—VARIETIES)
(PLANTS—FROST RESISTANCE)

MINASYAN, S.M.; GEVORKYAN, V.O.

Effect of mineral fertilizers on the chemical composition of shoots,
fruit pulp and the yield of peach. Izv. AN Arm. SSR. Biol. nauki
16 no.11:33-37 N '63.
(MIRA 17:4)

1. Institut vinodeliya i vinogradarstva Armyanskoy SSR.

AGINYAN, A.A.; MINASYAN, S.M.

Change in biochemical properties of seeds in embryogenesis as related to their vernalization. Izv. AN Arm. SSR. Biol. nauki 18 no.1:35-40 Ja '65. (MIRA 18:5)

MINASYAN, S.M.; BEKIRSKI, D.M.

Biochemical indices of the physiological state of apricot
and its yield. Izv. AN Arm. SSR. Biol. nauki 18 no.9:32-38
S '65. (MIRA 18:12)

1. Armyanskiy institut vinogradarstva, vinodeliya i plodovodstva.
Submitted March 19, 1964.

AKOPYAN, S.A.; MINASYAN, S.M.

Effect of combined application of the bone marrow and
microelements on the survival and hematological indices of
irradiated rabbits. Inv. AN Arm. SSR. Biol. nauki 19
no.10:3-10 O '65; (MIRA 18:12)

(A)

Having the products of pyrolysis from Krusell type gas
producer, I. A. Getmanov, L. S. Minasyan and N. A.
Ivanov, *Azotnadozhnoe Neft' i zid Khozyaistvo* 1935,
No. 4, 71-8.—Losses in gaseous hydrocarbons incurred
through blowing the preheaters with air can be eliminated
or minimized by displacing the hydrcarbon gases with
blue gases, thus permitting the accumulation of products
in receivers and eliminating pollution of air by gases.
A. A. Bochtingk
Calens, are presented.

MUNASYAN, T.S.

Utilization of cracking residues as stocks for repeated cracking. T. S. Munasyan, V. V. Berov, P. V. Ovyananikov, I. S. Zutkov, and T. G. Karpenko. Azerbaijan. Neft. Khim. 1956, No. 4, 19-22 (in Russian) - Cracking residues were deasphaltized with propane and reused as stocks for cracking. The complete exptl. data were given in detail. T. Durak

6

GOLOMSHTOK, I.S.; GELLER, Z.I.; KUZNETSOV, A.A.; MIMASYAN, T.S.

Effectiveness of using the "Bakinskii operation" heat exchanger
in petroleum refineries. Azerb.neft.khoz. 35 no.5:27-28 My '56.
(MLRA 9:10)

(Heat exchangers) (Petroleum--Refining)

ZHUKOV, I.S.; MINASYAN, T.S.; OVSYANNIKOV, P.V.

Ways for improving the operation of thermal cracking assemblies.
Azerb.neft.khoz. 35 no.6:46-48 Je '56. (MLRA 9:10)

(Cracking process)

MINAS YAN T.S.

MINAS, I.S.; MINAS, P.S., dotsent; OVRAMILEV, I.V.

Reduction innovators are improving the technique of thermal cracking. Neftkauik 2 no. 7: 07-18 Jl '57. (EUR 14:2)

1. Nachal'nik astanovki Gruzinskogo krekino-zavoda (for Zhukov)
2. Gruzinskii naftyanyy institut.
3. Konsertitel' glavnogo inzhenera Gruzinskogo krekino zavoda (for Osvannikova).

(Cracking process)

ZHUKOV, I.S.; MINASYAN, T.S.; OVSYANNIKOV, P.V.

Improving the operation of double-furnace thermocracking installations. Neftianik 2 no.8:14-16 Ag '57. (MIRA 10:10)

1. Nachal'nik ustanovki Groznenskogo kreking-zavoda (for Zhukov)
2. Dotsent Groznenkogo neftyanogo instituta (for Minasyan).
3. Zamestitel' glavnogo inshenera Groznenkogo kreking-zavoda (for Ovsvannikov).

(Cracking process)

Azneftneftkhos
MINASOV, T.S.; PAL'CHIKOV, G.F.; SEROV, V.V.; BOLOTOV, L.T.;
OVSYANNIKOV, P.V.; RUSAKOV, A.P.

Means for increasing raw material resources for the production of
diesel fuels. Azerb. neft.khos. 36 no.9:33-36 S '57.
(MIRA 11:2)
(Diesel fuels)

SOV/65-59-4-8/14

AUTHORS: Minasyan, T.S., Pal'chikov, G.F., Bolotov, L.T.,
Ovsyannikov, P.V., Shumovskiy, V.G., Afanasenko, M.M.,
Rusakov, A.P. and Karpenko, T.G.

TITLE: Investigations in the Groznyy Plants on the Catalytic
Purification of Middle Distillates Obtained During
Thermo-Cracking Processes (Iz opyta raboty groznenskikh
zavodov po kataliticheskoy ochistke srednikh distillyatov
termicheskogo krekinga)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4,
pp 44-48 (USSR)

ABSTRACT: The octane numbers of gasolines can be improved by
catalytic cracking of the kerosine-gas-oil fractions,
obtained during fractional distillation. This,
however, seems unsatisfactory because these fractions are
high quality starting materials for jet and diesel fuels
etc. The middle fractions, obtained during thermal
cracking, used as diesel fuels, contain a high quantity
of unsaturated hydrocarbons and have a low cetane number.
The quality of diesel fuels can be improved by using
aluminium silicate catalysts and enriched secondary
distillates. In this way, the consumption of unsaturated

Card 1/3

SOV/65-59-4-8/14

**Investigations in the Groznyy Plants on the Catalytic Purification
of Middle Distillates Obtained During Thermo-Cracking Processes**

compounds is decreased and the cetane number of the diesel fuels increased, whilst maintaining the standards required by GOST for diesel fuels. Tests were carried out on substances obtained after second distillation of the broad fraction and also by using mixtures of these substances and the kerosine fraction obtained during thermal cracking. The properties of the tested materials are given in table 1 and the process conditions in table 2. Some high octane gasoline was obtained during this process. This was purified, washed and reacted with an 18 to 20% NaOH solution. After stabilisation it was purified again, treated with a 15 to 18% NaOH solution and washed. The stabilised pure gasoline had an octane number of 76. A catalyst of decreased activity (29 to 30) was used during the enriching process. The properties of the aluminium silicate catalysts are given (table 3). Table 4 gives the hydrocarbon composition of the gas. The catalytic cracking of middle fractions can

Card 2/3

SOV/65-59-4-8/14

**Investigations in the Groznyy Plants on the Catalytic Purification
of Middle Distillates Obtained During Thermo-Cracking Processes**

be carried out on existing cracking plants and it is pointed out that the deposition of coke does not exceed the allowed limits. There are 4 tables.

Card 3/3